## ABSTRACT OF THE DISCLOSURE

Diene rubber compositions are described containing a diene elastomer, a reinforcing inorganic filler, and a coupling agent wherein the inorganic filler includes a silica having the following characteristics:

- (a) a BET specific surface area between 45 and 400 m<sup>2</sup>/g;
- (b) a CTAB specific surface area between 40 and 380 m<sup>2</sup>/g;
- (c) an average particle size (by mass), d<sub>w</sub>,, of 20 to 300 nm; and at least one of the following characteristics, preferably two and more preferably all three:
  - (d) a particle size distribution such that  $dw \ge / CTAB 30$ ;
  - (e) a porosity which meets the criterion L / FI $\geq$ -0.0025 CTAB + 0.85;
  - (f) an amount of silanols per unit of surface area,  $N_{SiOH/nm}^2$ ;  $N_{SiOH/nm}^2 \le -0.027 \text{ CTAB} + 10.5$ .

These diene rubber compositions can be used for the manufacture of tires or of semi-finished products intended for tires.